

FIG. 1

200

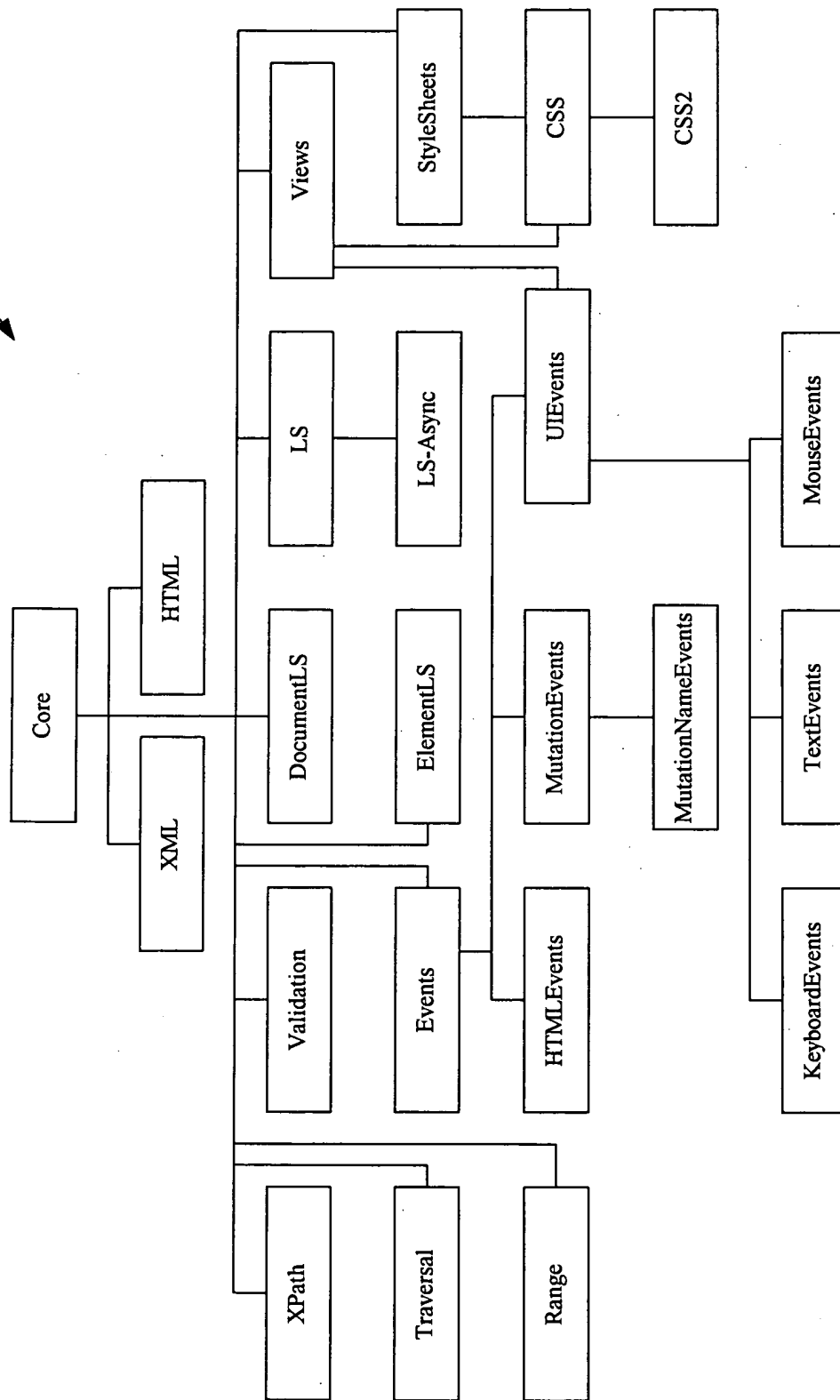


FIG. 2

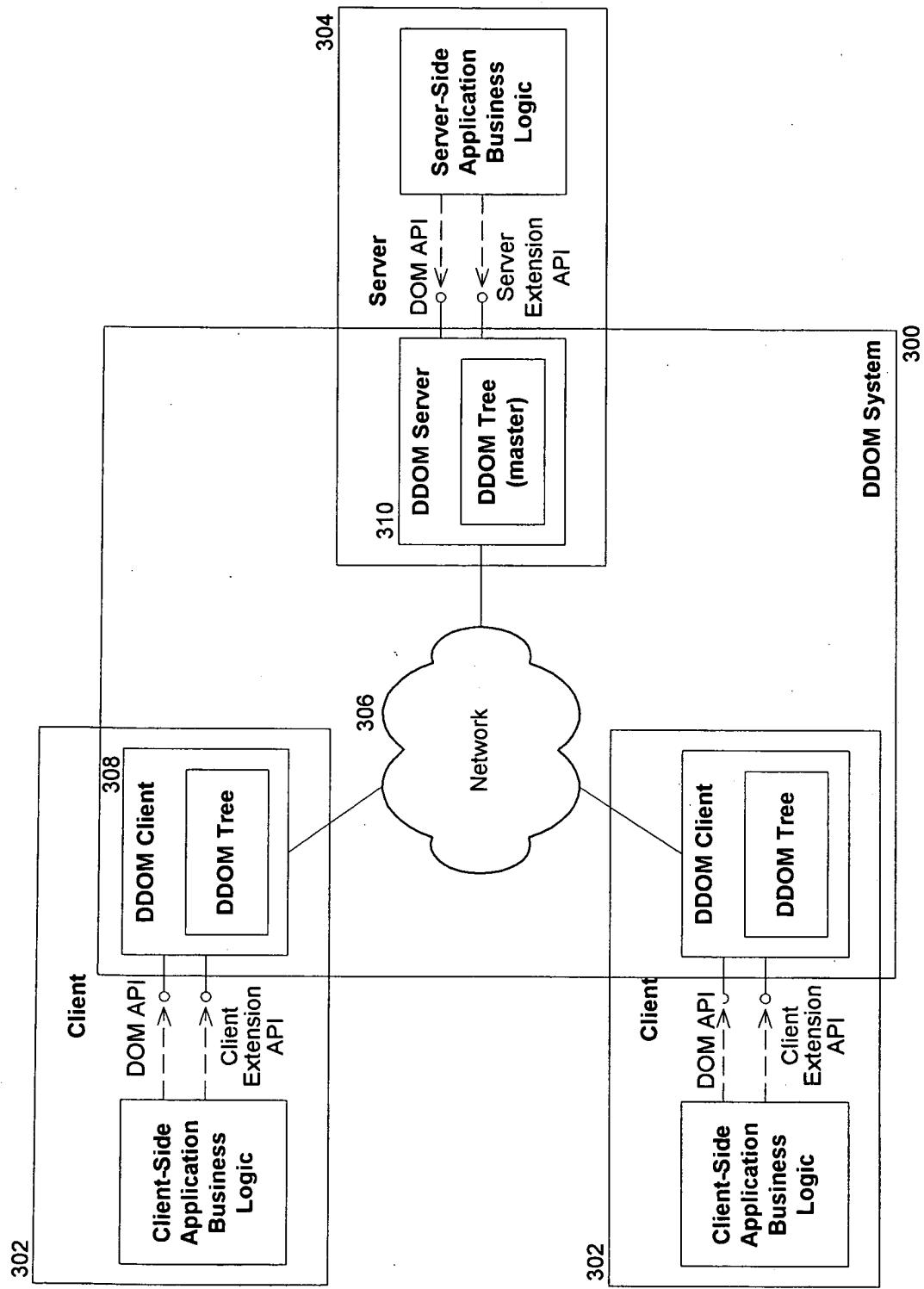


FIG. 3

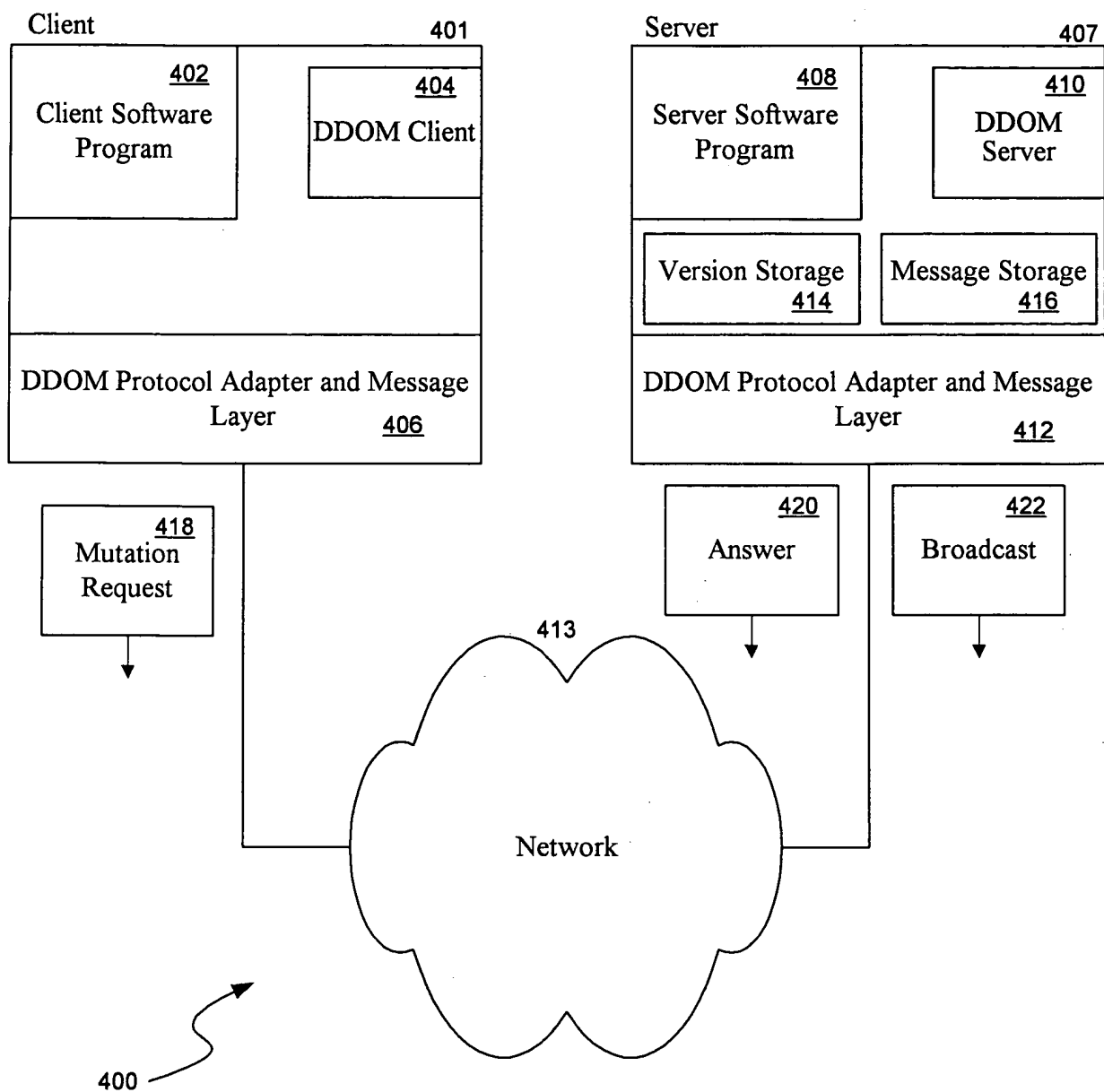


FIG. 4

500 **Client: Load Document Routine**

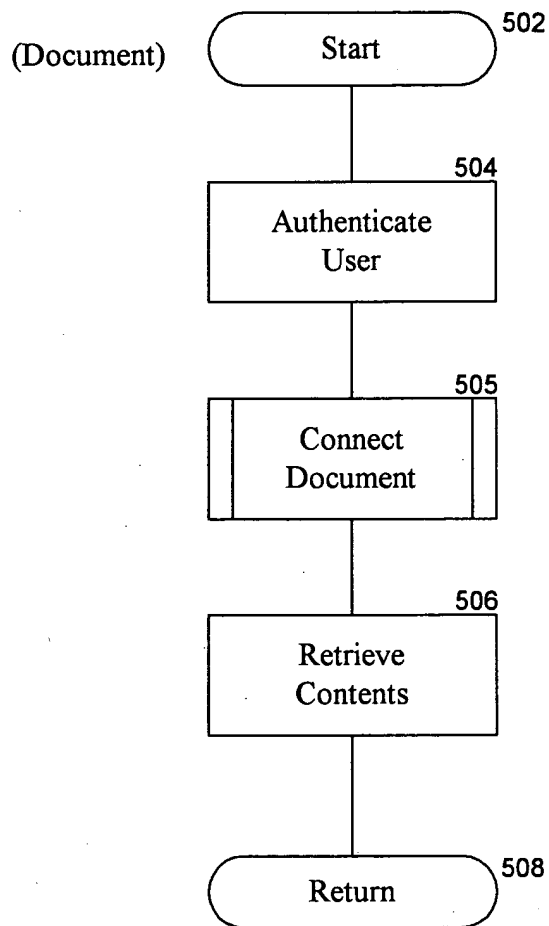


FIG. 5

**Server: Connect Document
Routine**

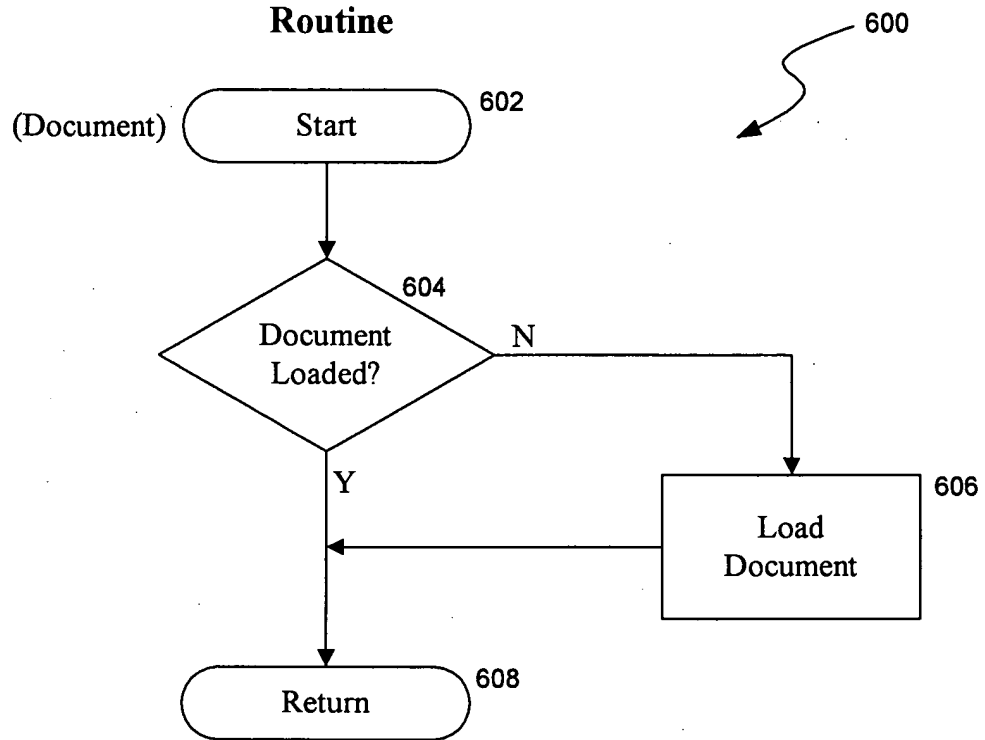


FIG. 6

Server: MutateTree Routine

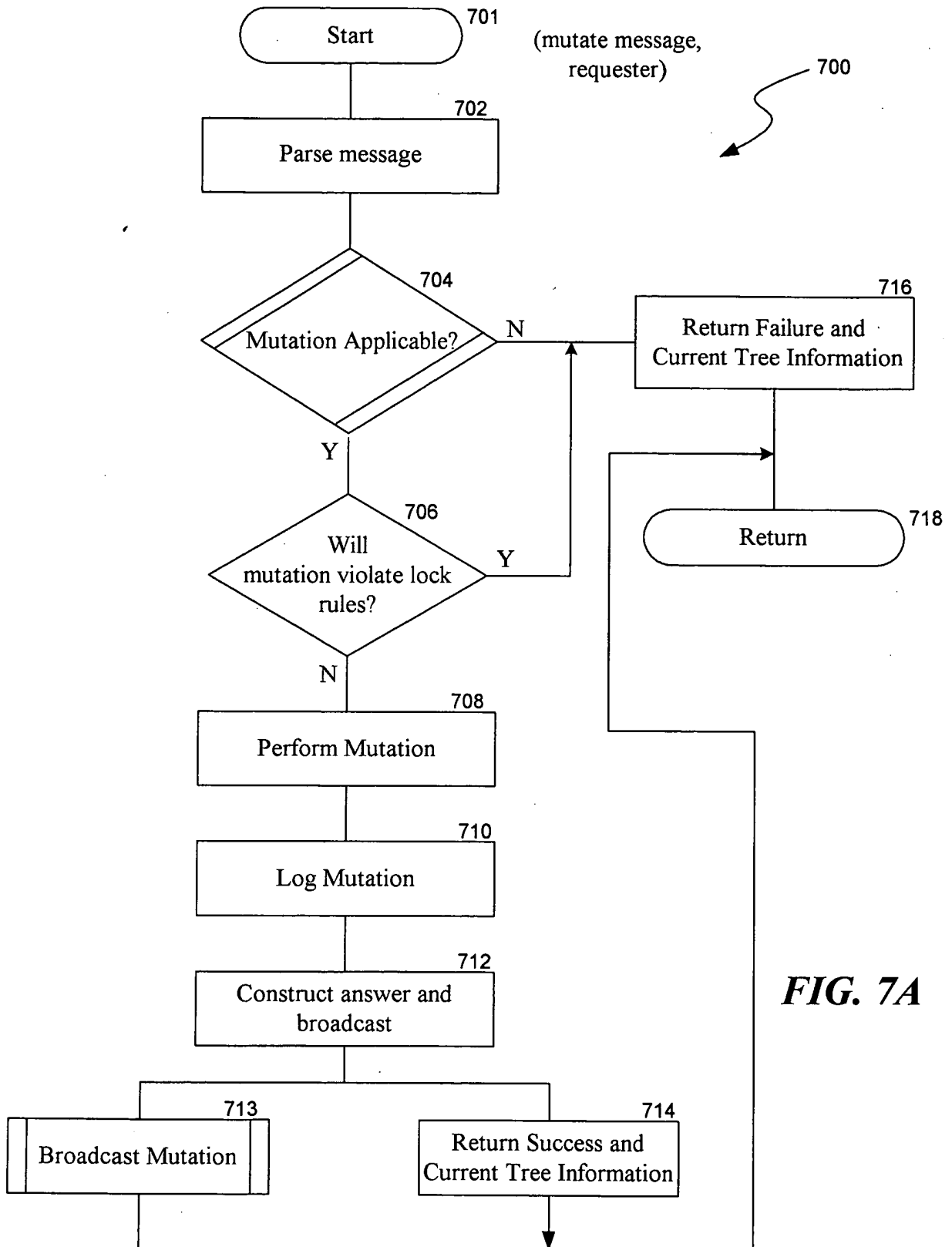


FIG. 7A

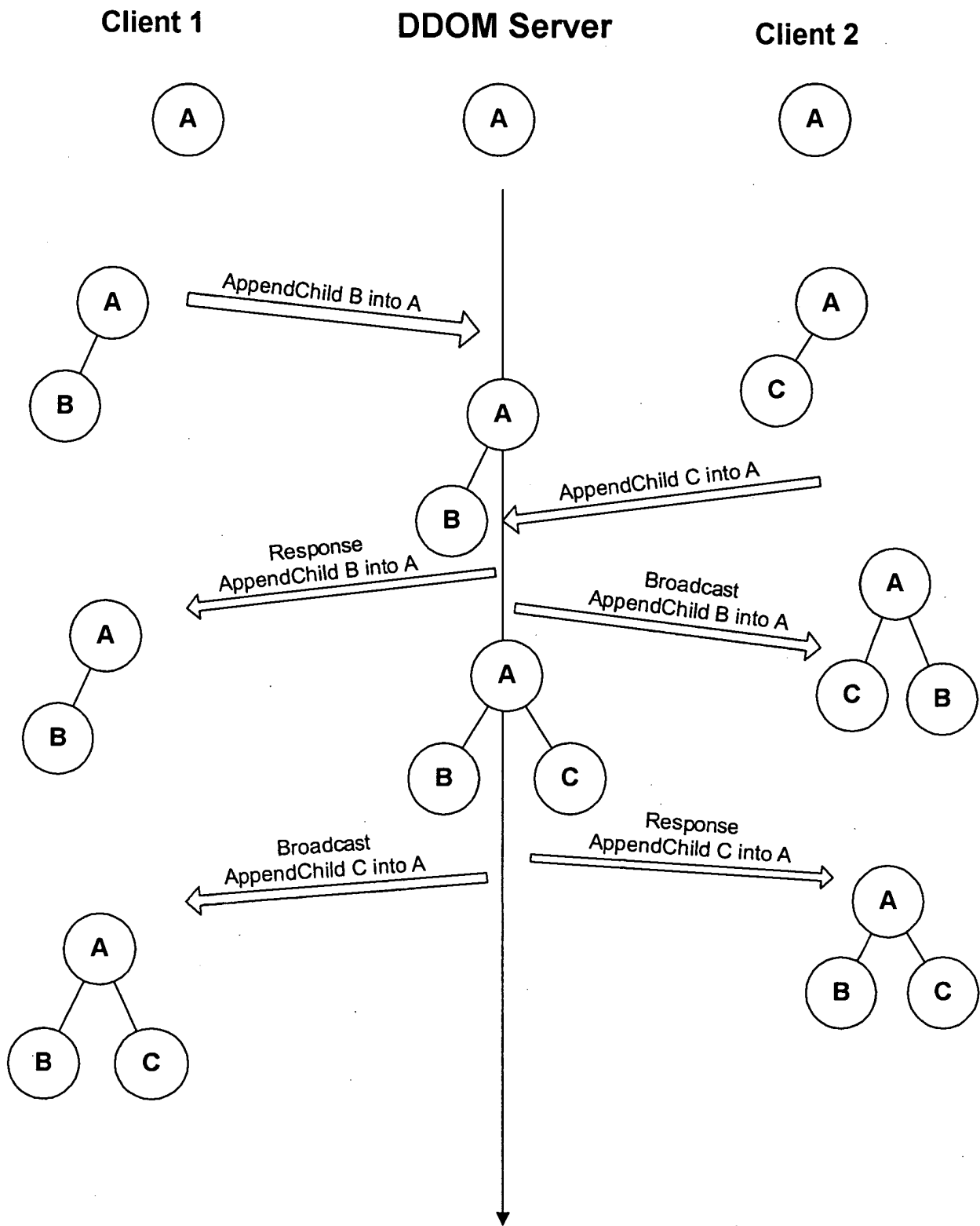


FIG. 7B

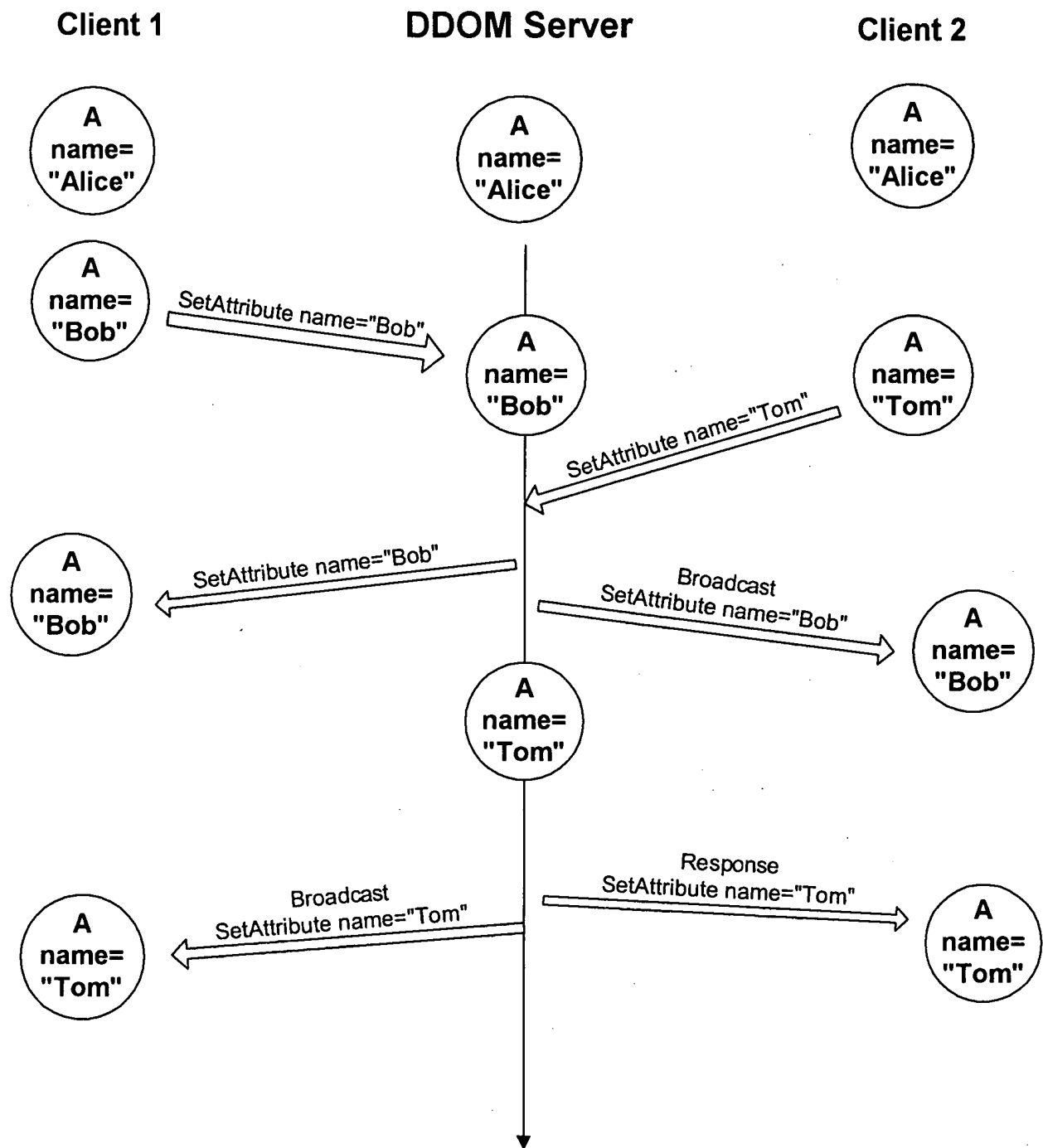


FIG. 7C

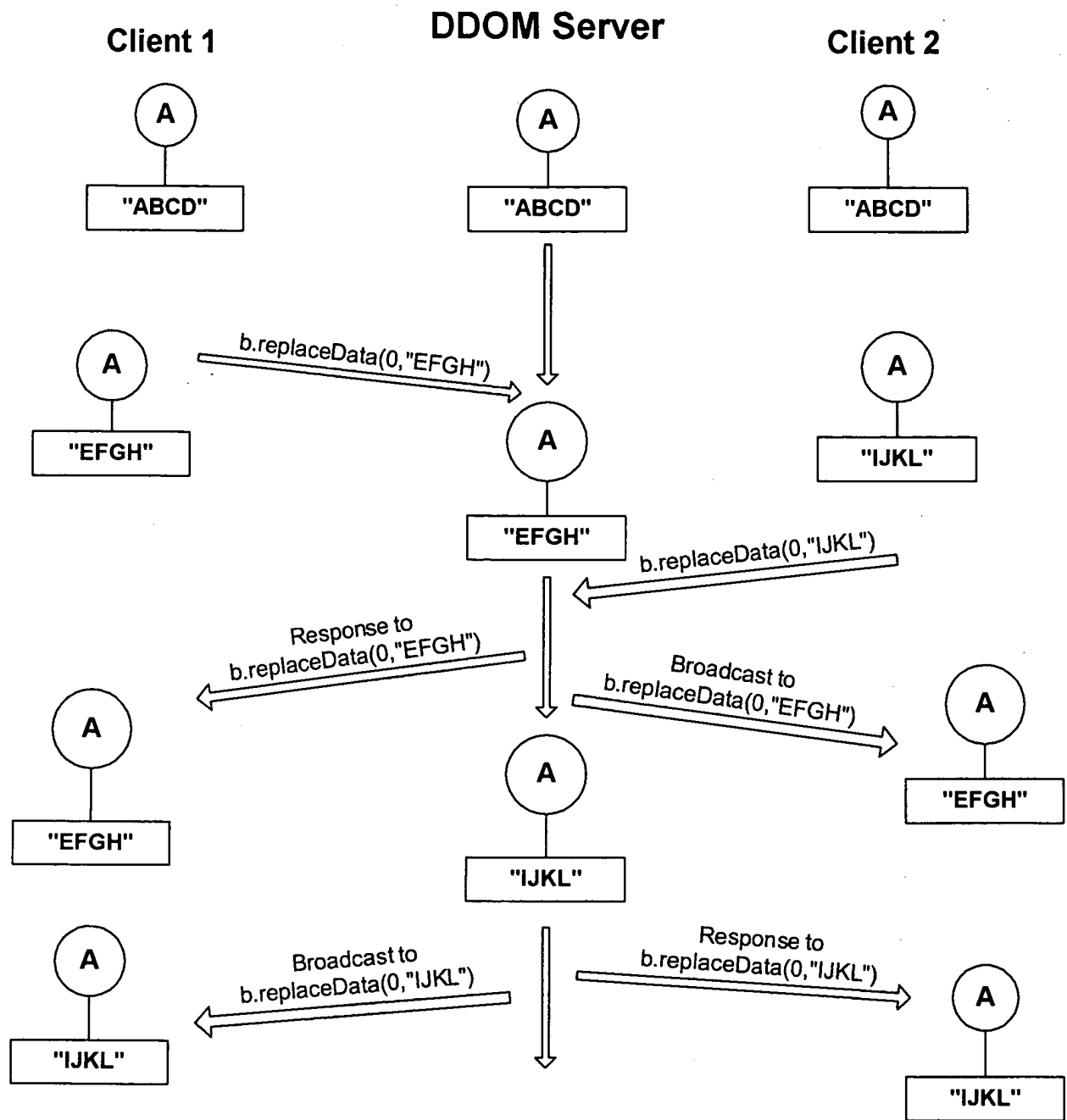


FIG. 7D

Server: Broadcast Mutation Routine

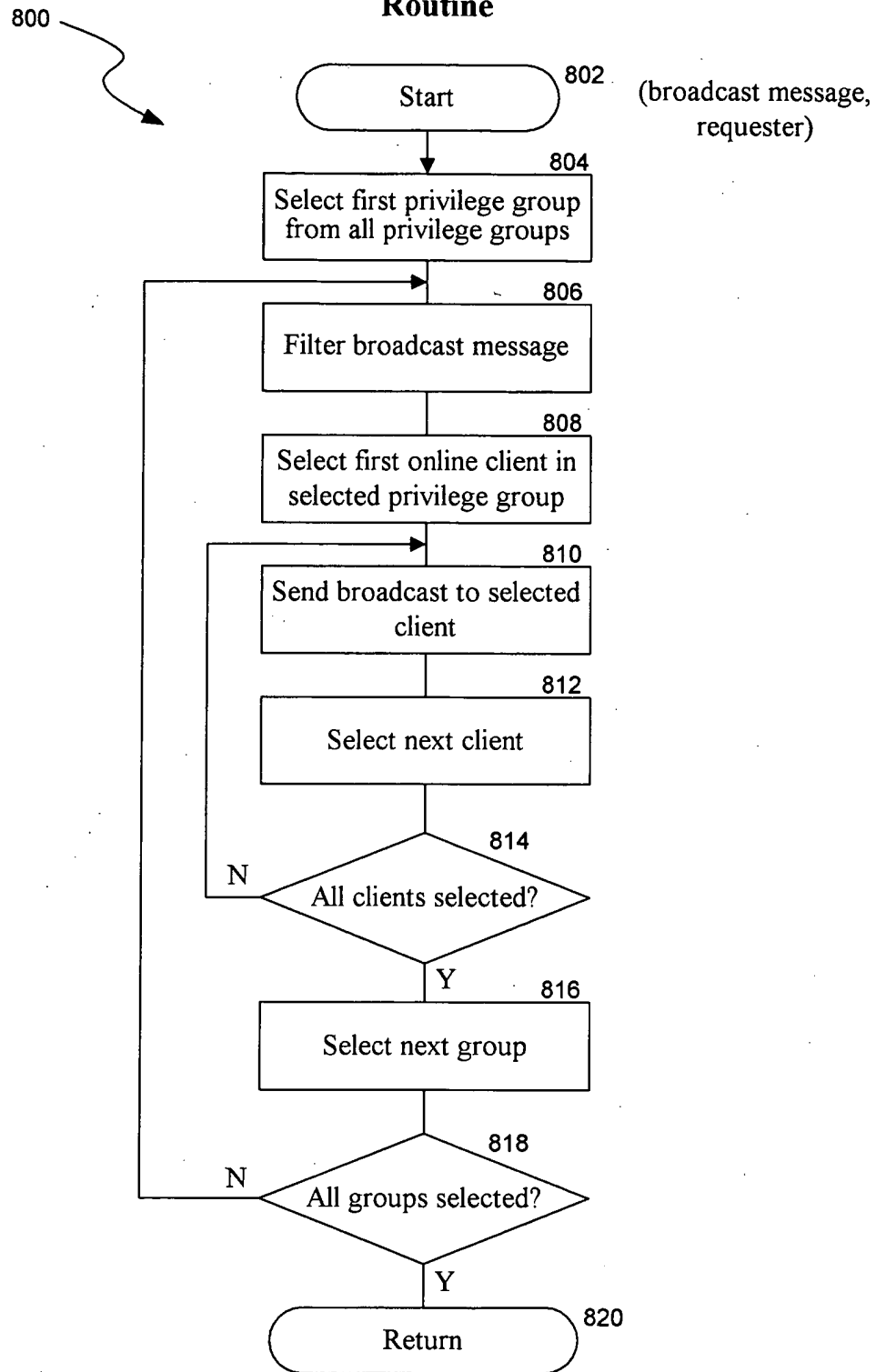


FIG. 8

**Server: Mutation
Applicable? Routine**

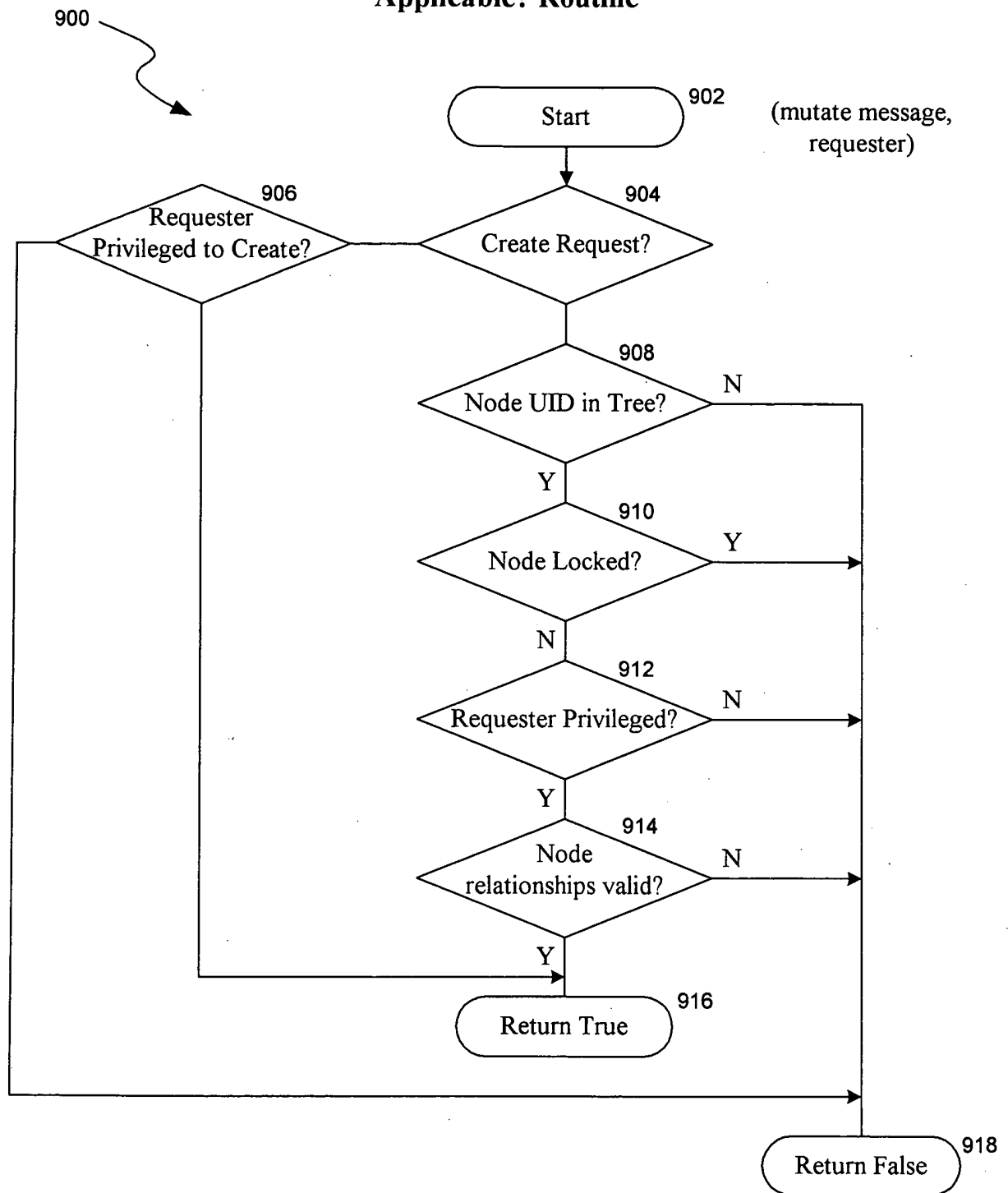


FIG. 9

Client: Mutate Request Routine

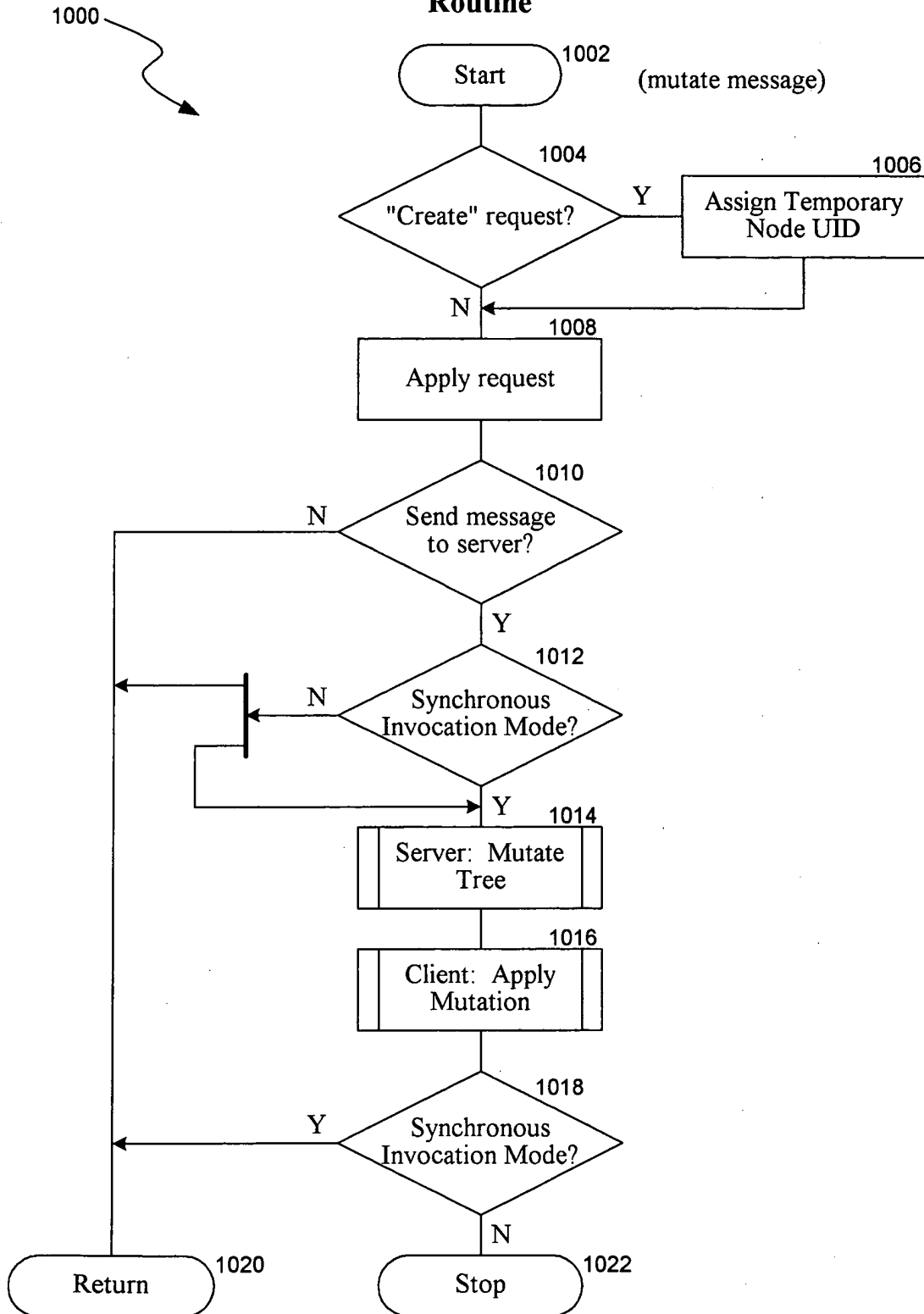


FIG. 10A

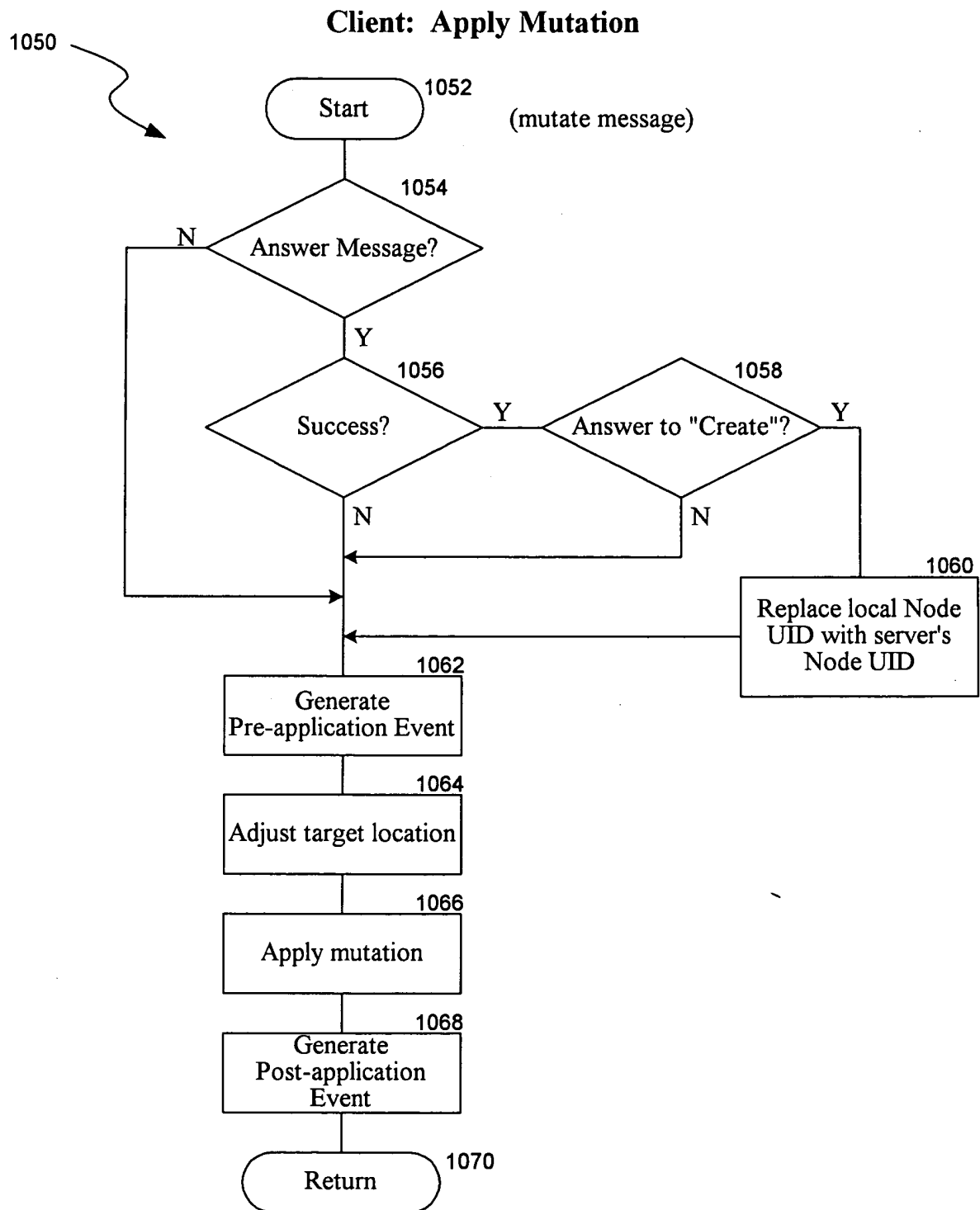


FIG. 10B

1100

Client: Receive Message

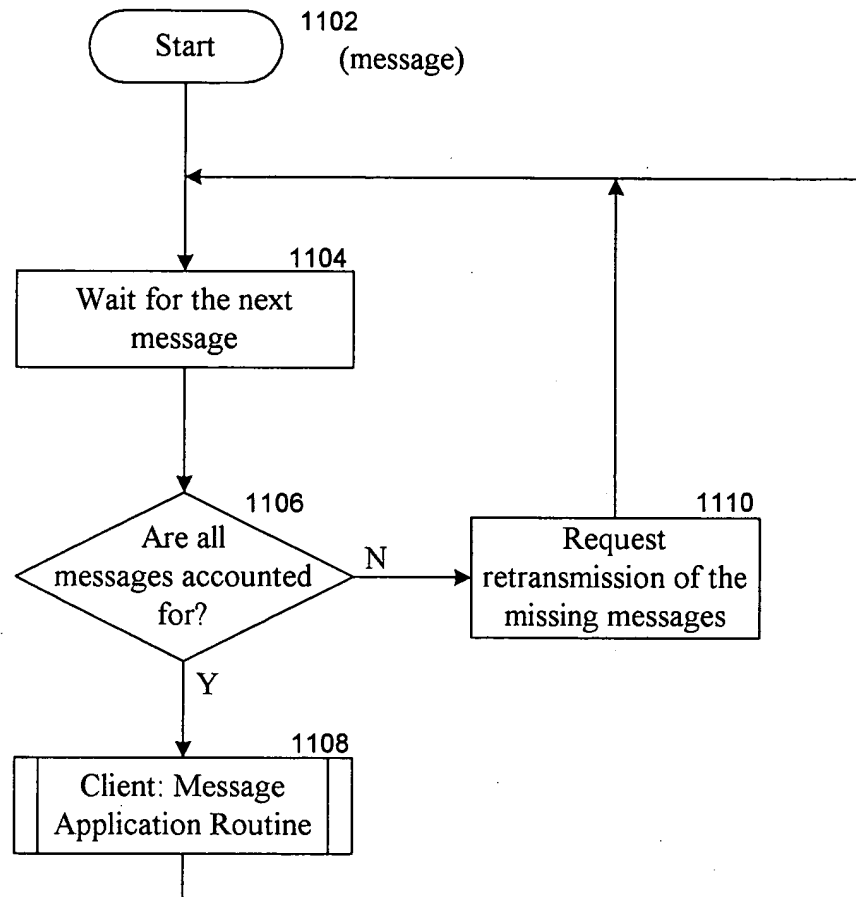


FIG. 11

RollForward Routine

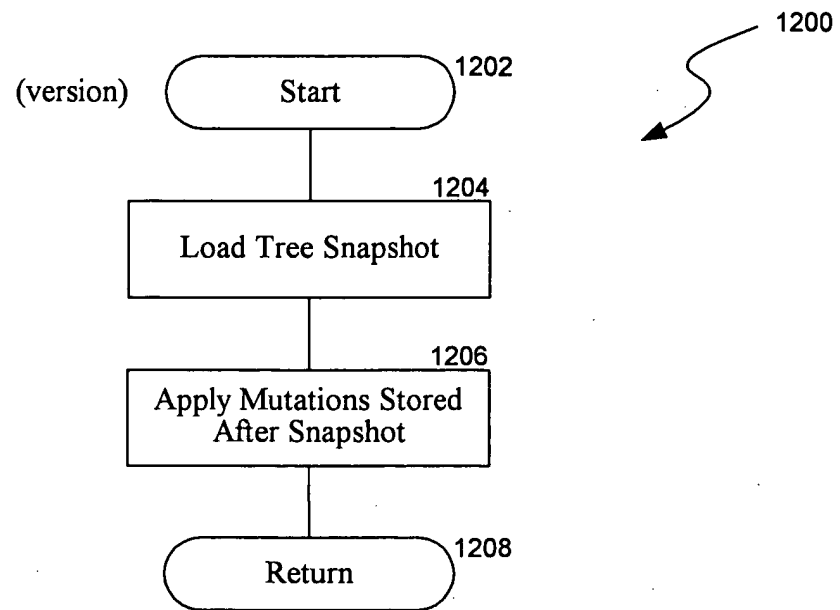


FIG. 12

RollBack Routine

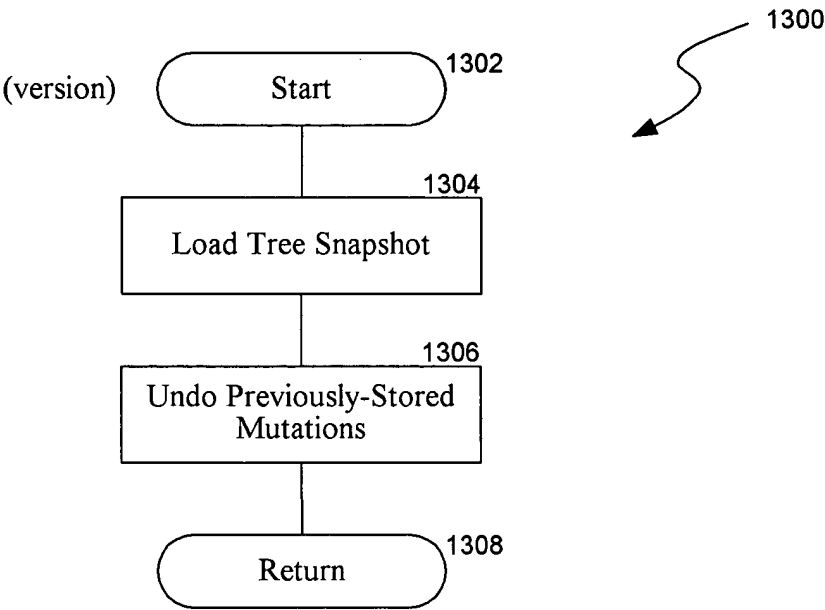


FIG. 13

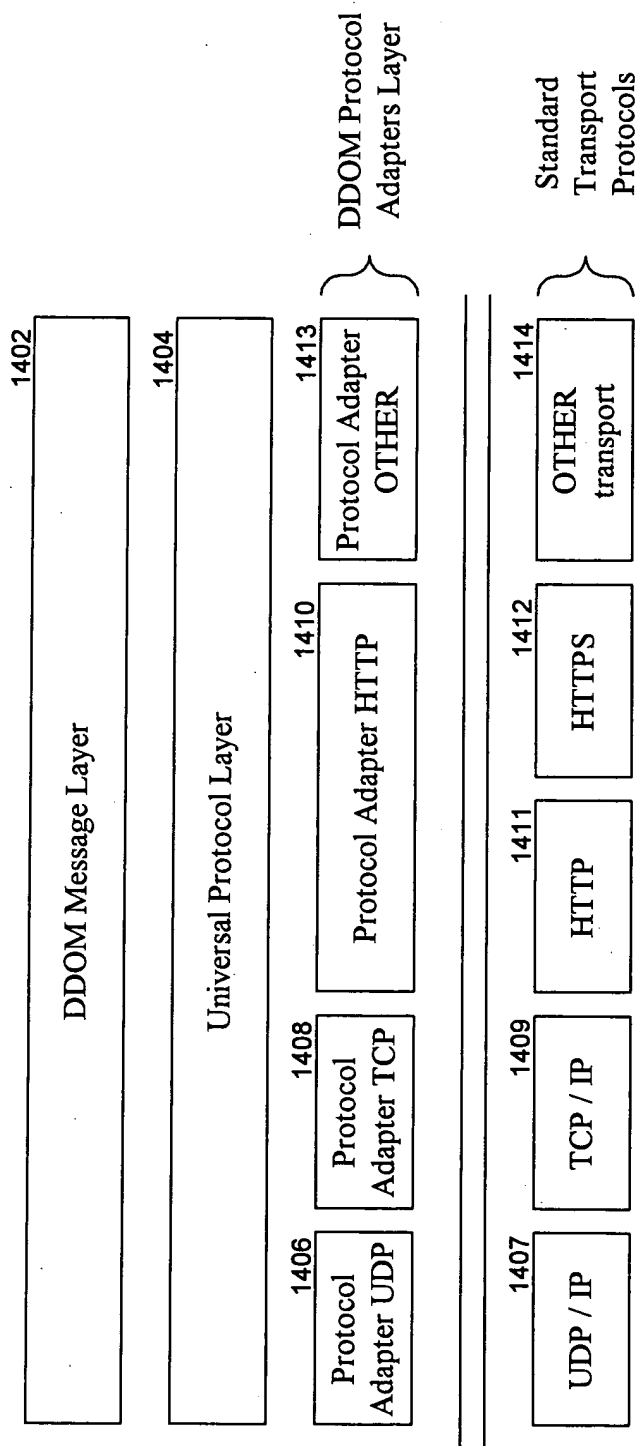


FIG. 14

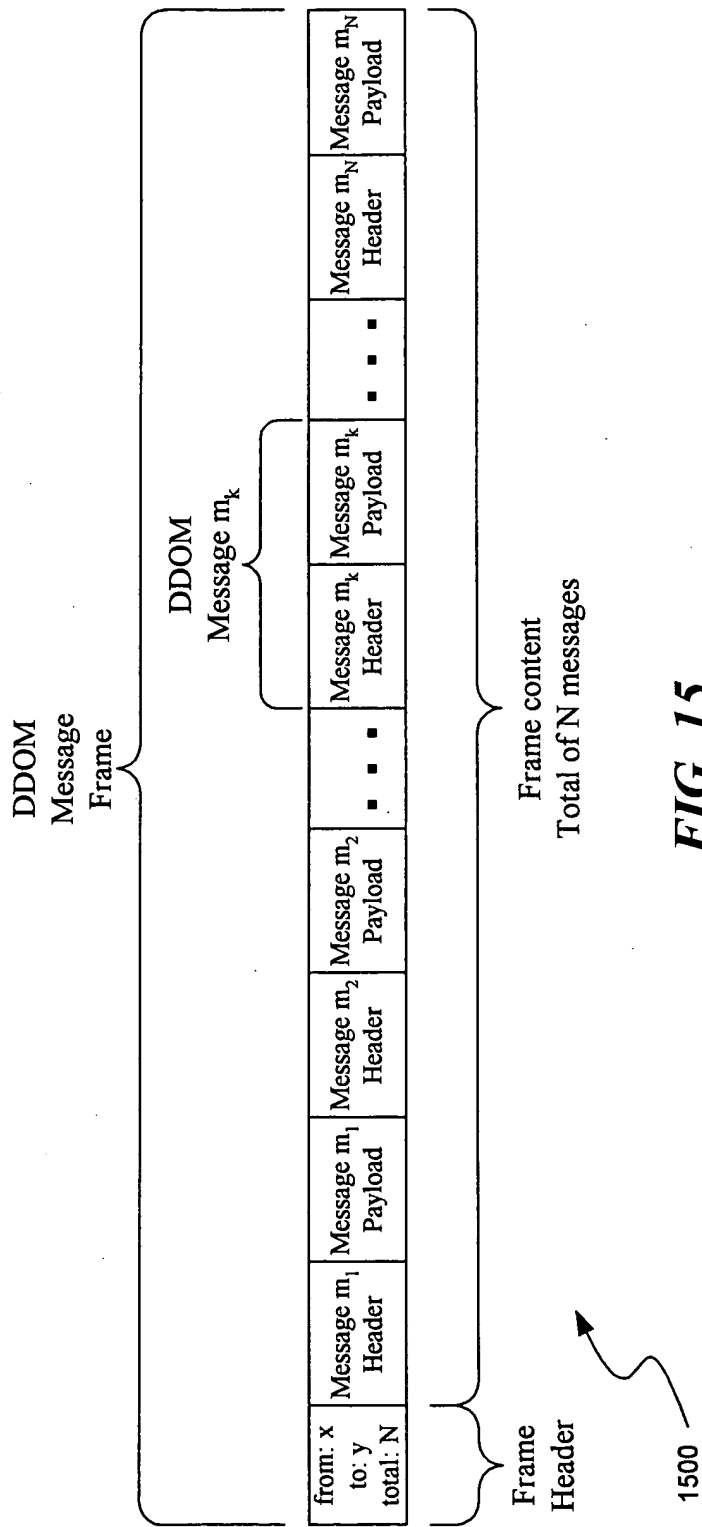


FIG. 15

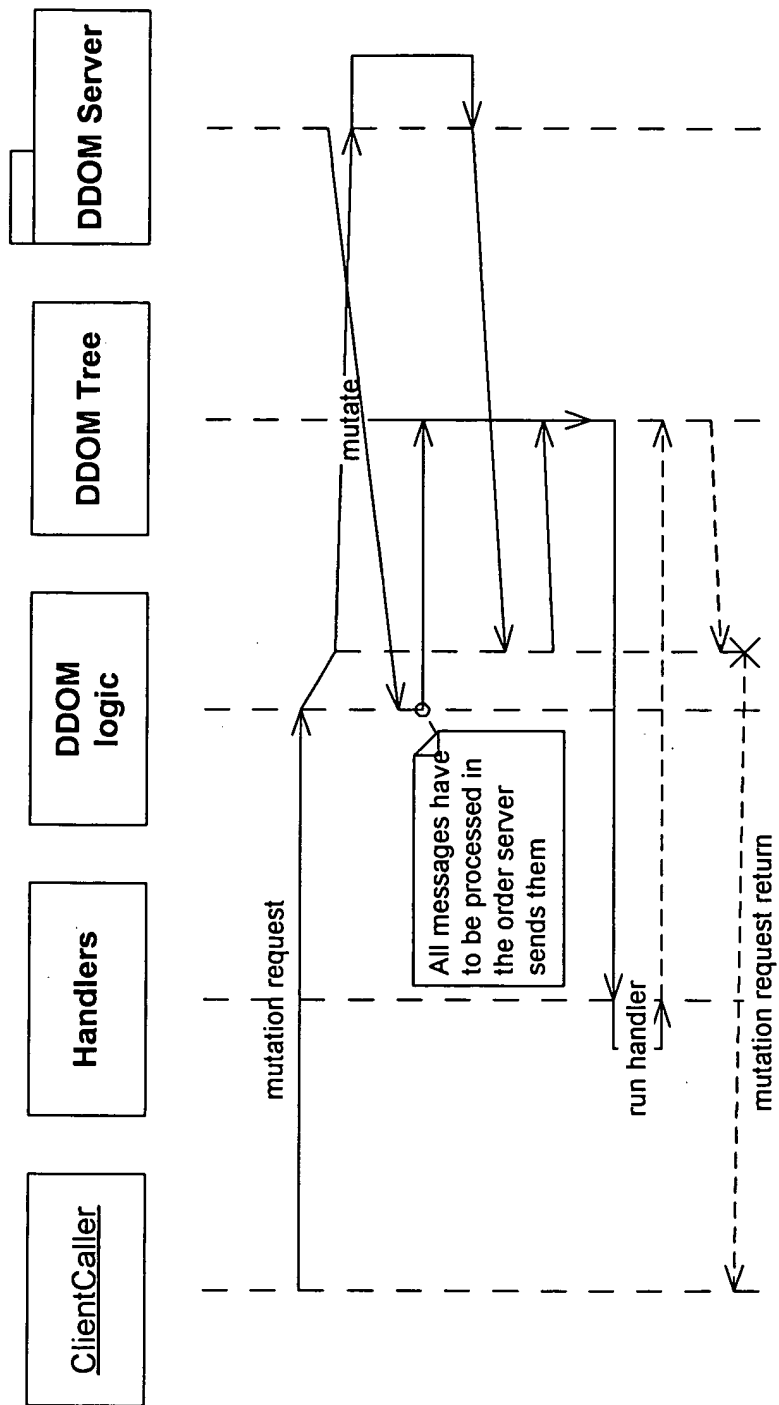


FIG. 16

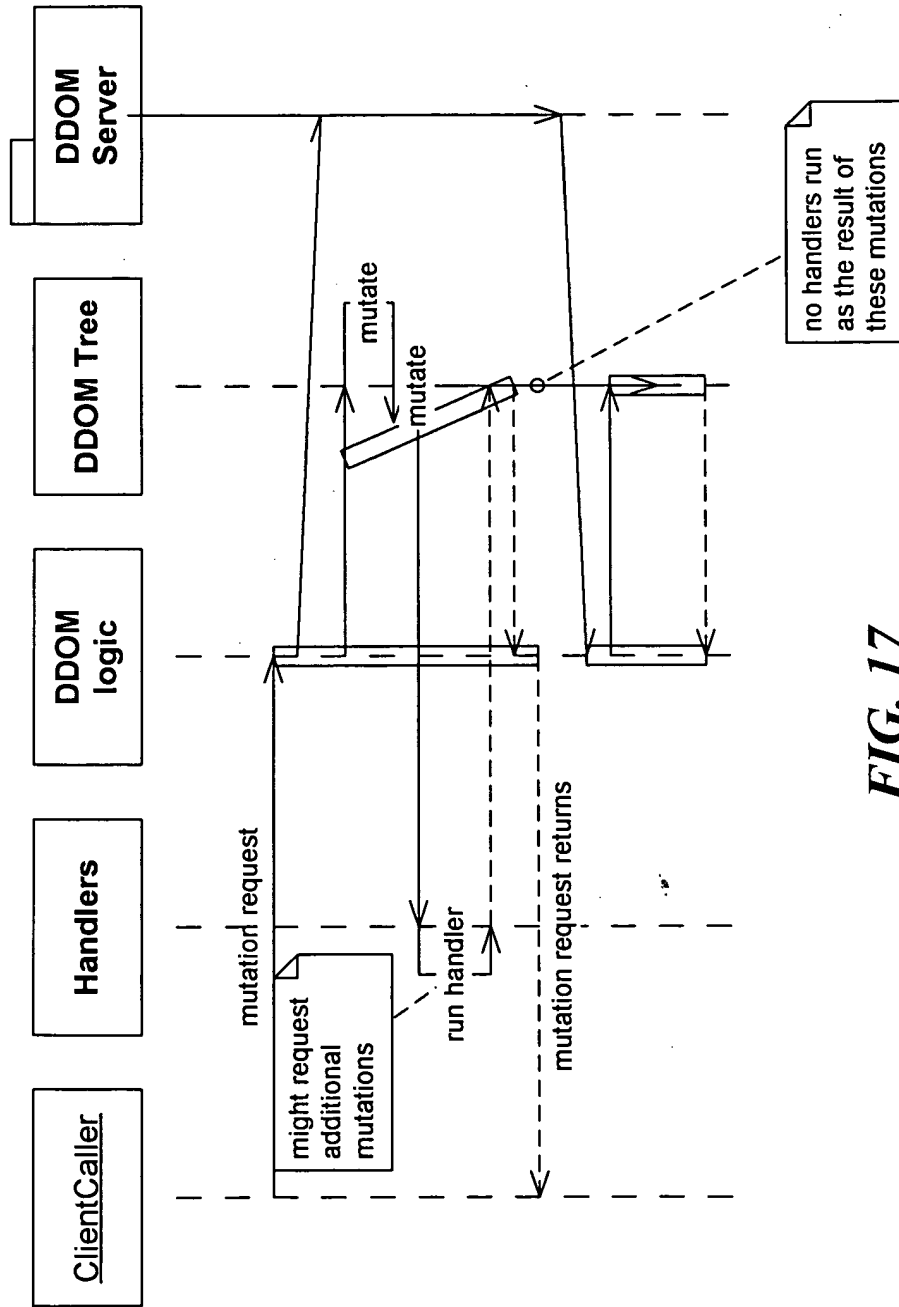


FIG. 17



FIG. 18